



1506-1032-1

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Andreas DIECKMANN et al. Confirmation No. 8230

Serial No. 10/619,906 Group 1614

Filed July 16, 2003 Examiner Unassigned

ANTISENSE COMPOUNDS, METHODS AND COMPOSITIONS FOR TREATING  
MMP-12 RELATED INFLAMMATORY DISORDERS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with Rules 1.97 and 1.98, and in fulfillment of the duty of disclosure under Rule 1.56, the cited documents are made of record on the enclosed PTO Form-1449.

As the USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent and patent publication for applications filed after June 30, 2003, copies of the cited U.S. references are not enclosed, as the present application is filed after June 30, 2003. Copies of the cited foreign patent documents and/or non-patent literature are enclosed.

A concise explanation of the relevance of these items is that these references were cited in the International Search Report Patent Office in the corresponding International Application Serial No. PCT/SE03/01223, filed July 17, 2003, and cited by the European Patent Office in the corresponding European Patent Search for PCT/SE03/01223. Copies of the

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International Search Report and the European Search Report in  
which they were cited are attached hereto.

Respectfully submitted,

YOUNG & THOMPSON

By



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February 2, 2004

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTN. DOCKET NO.  
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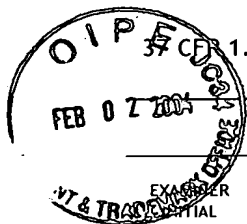
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Use several sheets if necessary)

APPLICANT  
Andreas DIECKMANN et al.

FILING DATE  
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GROUP  
1614



**U.S. PATENT DOCUMENTS**

	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AA	US 2002/ 0037538 A1 corres. to WO 0186002	03/02	Trepicchio et al.			
AB	US 2003/ 0036070 A1 corres. to WO0129269	02/03	Chakravarti			
AC	5,506,242	04/96	MacPherson et al.			
AD	US 2003/ 0157110 A1	08/03	An et al.			

**FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION**

	DOCUMENT NO.	PUBL. DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANSLATION YES NO
AI	98/04287	02/98	WO			
AJ	20010580890	07/03	JP			
AK	01/83461 A1 corres. to JP 20010580890	11/01	WO			with English Abstract

**OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)**

AT	Roscoe L. Warner et al., "Role of Metalloelastase (MMP-12) in a Model of Experimental Asthma," FASEB Journal, V. 16, 2002, p. A590, abstract.
AU	R. Dean Hautamaki et al., "Requirement for Macrophage Elastase for Cigarette Smoke-Induced Emphysema in Mice," Science, V. 277, 1997, pp. 2002-2004.
AV	Renu A. Heller et al., "Discovery and Analysis of Inflammatory Disease-Related Genes Using cDNA Microarrays," Proc. Natl. Acad. Sci. USA, V. 94, pp. 2150-2155.
AX	Maarit Vaalamo et al., "Distinct Expression Profiles of Stromelysin-2 (MMP-10), Collagenase-3 (MMP-13), Macrophage Metalloelastase (MMP-12), and Tissue Inhibitor of Metalloproteinases-3 (TIMP-3) in Intestinal Ulcerations," American Journal of Pathology, V. 152, 1998, pp. 1005-1014.
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**EXAMINER**

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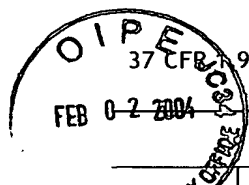
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**U.S. PATENT DOCUMENTS**

		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	BA	6,352,976	03/02	Warshawsky et al.			
	BB						
	BC						
	BD						

**FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION**

		DOCUMENT NO.	PUBL. DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANSLATION YES NO
	BI	01/83431 A1	11/01	WO			English abstract
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	BK	00/31105	06/00	WO			

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	BT	Azzaq Belaaouaj et al., "Human Macrophage Metalloelastase," The Journal of Biological Chemistry, V. 270, 1995, pp. 14568-14575.
	BU	Sayda M. Elbashir et al., "Functional Anatomy of siRNAs for Mediating Efficient RNAi in <i>Drosophila melanogaster</i> Embryo Lysate," The EMBO Journal, V. 20, 2001, pp. 6877-6888.
	BV	Steven D. Shapiro et al., "Cloning and Characterization of a Unique Elastolytic Metalloproteinase Produced by Human Alveolar Macrophages," The Journal of Biological Chemistry, V. 268, 1993, pp. 23824-23829.
	BX	Karl-Heinz Altmann et al., "Novel Chemistry," Chapter 4, Applied Antisense Oligonucleotide Technology, 1998, pp. 73-107.
	BY	Martin H. Holtmann et al., "Immunotherapeutic Approaches to Inflammatory Bowel Diseases," Expert Opinion on Biological Therapy, 2001, pp. 455-466.

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